

Soft Robotic Chopping Board Assistant

Designed a robotic assistant for the kitchen to hold fresh produce so that it was safer to cut.

Skills

CAD modelling

3D printing

Soft robotics

Arduino code with multiple sensors (sensor fusion)

Robotics research and development

Use of pneumatic tools, components

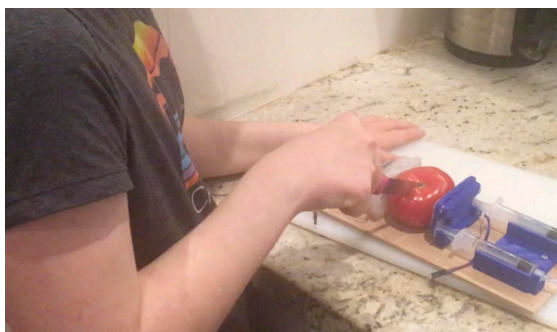
Awards

- 1st place in the College Category for the [Harvard Soft Robotics Competition 2023](#).
- 3rd place in the Technological Innovations Y11-12 Category at the [STANSW Young Scientist Awards 2023](#).
- 2nd Place AARNet Use of Technology Award - Secondary, also at the STANSW Young Scientist Awards 2023.

Documentation

- GitHub code and other resource documentation (open-source): github.com/timo-wilson24/Soft-robot-kitchen-assistant
- AUSSEF - Chopping Board Assistant Submission Video: youtu.be/T2KDRH2tRoQ?si=e9xJF4VDxiq_ELAp

Finished product images



Process/Production images

